http://www.tutorialspoint.com/ruby/ruby\_if\_else.htm

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Ruby offers contional structures that are pretty common to modern languages. Here we will explain all the conditional statements and modifiers available in Ruby

## Ruby if...else Statement:

## **Syntax:**

```
if conditional [then]
  code...
[elsif conditional [then]
  code...]...
[else
  code...]
end
```

if expressions are used for conditional execution. The values false and nil are false, and everything else are true. Notice Ruby uses elsif, not else if nor elif.

Executes code if the conditional is true. If the conditional is not true, code specified in the else clause is executed.

An if expression's *conditional* is separated from code by the reserved word *then*, a newline, or a semicolon.

## **Example:**

```
#!/usr/bin/ruby

x=1
if x > 2
   puts "x is greater than 2"
elsif x <= 2 and x!=0
   puts "x is 1"
else
   puts "I can't guess the number"
end</pre>
```

```
x is 1
```

# Ruby if modifier:

# **Syntax:**

```
code if condition
```

Executes code if the conditional is true.

## **Example:**

```
#!/usr/bin/ruby
$debug=1
print "debug\n" if $debug
```

This will produce following result:

# **Ruby unless Statement:**

## Syntax:

```
unless conditional [then]
  code
[else
  code ]
end
```

Executes code if conditional is false. If the conditional is true, code specified in the else clause is executed.

# **Example:**

```
#!/usr/bin/ruby

x=1
unless x>2
   puts "x is less than 2"
else
   puts "x is greater than 2"
end
```

This will produce following result:

```
x is less than 2
```

# Ruby unless modifier:

#### **Syntax:**

```
code unless conditional
```

Executes code if conditional is false.

## **Example:**

```
#!/usr/bin/ruby

$var = 1
print "1 -- Value is set\n" if $var
print "2 -- Value is set\n" unless $var

$var = false
print "3 -- Value is set\n" unless $var
```

This will produce following result:

```
1 -- Value is set
3 -- Value is set
```

## Ruby case Statement

## **Syntax:**

```
case expression
[when expression [, expression ...] [then]
  code ]...
```

```
[else
   code ]
end
```

Compares the *expression* specified by case and that specified by when using the === operator and executes the *code* of the when clause that matches.

The *expression* specified by the when clause is evaluated as the left operand. If no when clauses match, *case* executes the code of the *else* clause.

A when statement's expression is separated from code by the reserved word then, a newline, or a semicolon.

Thus:

```
case expr0
when expr1, expr2
  stmt1
when expr3, expr4
  stmt2
else
  stmt3
end
```

is basically similar to the following:

```
_tmp = expr0
if expr1 === _tmp || expr2 === _tmp
    stmt1
elsif expr3 === _tmp || expr4 === _tmp
    stmt2
else
    stmt3
end
```

# **Example:**

```
#!/usr/bin/ruby

$age = 5
case $age
when 0 .. 2
    puts "baby"
when 3 .. 6
    puts "little child"
when 7 .. 12
    puts "child"
when 13 .. 18
    puts "youth"
else
    puts "adult"
end
```

This will produce following result:

```
little child
```